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UNITED STATES DEPARTMENT OF AGRICULTURE,
FOREST SERVICE.

HENRY S. GRAVES, Forester.

January Field Program, 1913.

This program of field work and assignments in the Forest Service is issued quarterly on the 15th day of July, October, January, and April, and is for the exclusive use of members of the Service and cooperating bureaus. The names of members whose assignments are not yet fixed are necessarily omitted. All orders and other instructions printed in the Field Program will apply to all districts.

It is requested that the members of the Forest Service cooperate in making this program complete and accurate.

Unless the address of a member is given in this program or is definitely known, he should be addressed in care of the Forest Service, Washington, D. C.

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Pocatello.—J. F. BRUINS, forest supervisor, Pocatello (WU-Am); Pocatello Nursery, Arthur P. Say, forest ranger.

- Salmon.**—JOHN A. PEARSON, forest supervisor, Salmon (WU-Am); Herman Work, forest assistant.
- Sawtooth.**—C. N. WOODS, forest supervisor, Hailey (WU-Am); Herbert G. McPheters, deputy forest supervisor; Samuel B. Locke, deputy forest supervisor; T. F. Heineman, forest assistant.
- Targhee.**—CHESTER B. MORSE, forest supervisor, St. Anthony (WU-Am); Charles A. Beam, deputy forest supervisor; S. S. Stewart and J. W. Stokes, forest assistants.
- Weiser.**—J. B. LAFFERTY, forest supervisor, Weiser (WU-Am); W. M. Campbell, deputy forest supervisor; A. E. Oman, forest assistant.

NEVADA.

- Humboldt.**—C. SYDNEY TREMEWAN, forest supervisor, Gold Creek (WU-WF).
- Moapa.**—THOMAS J. COLLINS, forest supervisor, Austin (WU-Am).
- Nevada.**—GEO. C. THOMPSON, forest supervisor, Ely (WU-WF); W. B. Rice, forest assistant.
- Ruby.**—JAMES M. RYAN, forest supervisor, Lamoille (WU-WF).
- Santa Rosa.**—W. W. BLAKESLEE, forest supervisor, Paradise.
- Toiyabe.**—THOMAS J. COLLINS, forest supervisor, Austin (WU, P-WF); R. D. Garver, forest assistant.

UTAH.

- Ashley.**—W. M. ANDERSON, forest supervisor, Vernal (WU-WF); Lester E. Hitchcock, forest assistant.
- Cache.**—CLINTON G. SMITH, forest supervisor, Logan (WU-Am); J. W. Humphrey, deputy forest supervisor; E. C. Shepard, forest assistant.
- Dixie.**—JOHN RAPHAEL, forest supervisor, St. George (WU-WF).
- Fillmore.**—WM. HURST, forest supervisor, Beaver (WU-WF).
- Fishlake.**—CARL B. ARENTSON, forest supervisor, Salina (WU-WF); D. A. Arrivee, forest assistant.
- La Sal.**—HENRY A. BERGIL, forest supervisor, Moab (WU-WF).
- Manti.**—A. W. JENSEN, forest supervisor, Ephraim (WU-WF); Ernest Winkler, deputy forest supervisor; J. C. Roak, forest assistant.
- Minidoka.**—See Idaho.
- Nebo.**—DAN S. PACK, forest supervisor, Nephi (WU-WF).
- Pocatello.**—See Idaho.
- Powell.**—GEO. H. BARNEY, forest supervisor, Escalante (WU-WF).
- Sevier.**—O. C. SNOW, forest supervisor, Panguitch (WU-WF).
- Uinta.**—W. I. PACK, forest supervisor, Provo (WU-WF); J. Carl Allred, deputy forest supervisor; Nils B. Eckbo, forest examiner; Uinta Nursery, Asa L. Brower and F. S. Baker, forest assistants.
- Wasatch.**—E. H. CLARKE, forest supervisor, Salt Lake City (WU, P-Am, WF); S. E. Bower, forest assistant; Wasatch Nursery, N. J. Fetherolf, forest planting assistant.

WYOMING.

Ashley.—See Utah.

Caribou.—See Idaho.

Palisade.—See Idaho.

Targhee.—See Idaho.

Teton.—R. E. MILLER, forest supervisor, Jackson (WU-Am); H. B. Maris, forest assistant.

Wyoming.—JAMES E. JEWELL, forest supervisor, Afton (WU-Am); John E. Ingram, forest assistant.

DISTRICT 5.

California and southwestern Nevada. Office, First National Bank Building, San Francisco, Cal.

COERT DUBOIS, district forester; WALTER L. HUBER, district engineer; J. LEROY MATHIAS, assistant to district engineer; CLARENCE WILEY, inspector of records.

LAW.—Office of the Solicitor (Forest Service branch). H. P. DECHANT, assistant to the solicitor, in charge; MAURY CURTIS, assistant to the solicitor.

ACCOUNTS.—F. C. THOMPSON, district fiscal agent.

OPERATION.—ROY HEADLEY, assistant district forester; WM. C. HODGE, Jr., inspector of fire-protection plans.

MAINTENANCE.—F. H. SMITH.

SILVICULTURE.—T. D. WOODBURY, assistant district forester; SWIFT BERRY, forest examiner.

LOUIS MARGOLIN, forest examiner, reconnaissance.

SILVICS.—J. A. MITCHELL and L. T. LARSEN, forest assistants.

RALPH HOPPING, forest examiner, insect control.

E. P. MEINECKE, consulting pathologist; J. T. BOYCE, scientific assistant, San Francisco, Cal.

GRAZING.—JOHN H. HATTON, assistant district forester.

LANDS.—L. A. BARRETT, assistant district forester; CHAS. S. BROTHERS, assistant: land classification—S. N. STONER, forest examiner, in charge of district; J. O. MORROW and P. L. DAY, forest examiners in charge of field parties.

PRODUCTS.—C. STOWELL SMITH, assistant district forester, in charge; C. A. KUPFER, forest assistant; PERCY R. HICKS, engineer in wood preservation; GEO. M. HUNT, assistant chemist in forest products, San Francisco, Cal.

EXPERIMENT STATION.

Feather River, Plumas National Forest—HAROLD H. GREENAMYRE, forest assistant, in charge, Quincy, Cal.

FOREST INSECT FIELD STATION.

(Bureau of Entomology, Branch of Forest Insect Investigations.)

Station 5, Placerville, Cal.—H. E. BURKE, entomological assistant, in charge.

NATIONAL FORESTS.

CALIFORNIA.

- Angeles.**—R. H. CHARLTON, forest supervisor, Los Angeles (WU, P-WF) ; Edward N. Munns, forest assistant. San Bernardino.
- California.**—D. P. GODWIN, forest supervisor, Willows (P-WF) ; B. H. Mace, deputy forest supervisor ; S. W. Strothman, forest assistant.
- Cleveland.**—H. N. WHEELER, forest supervisor, San Diego (WU, P-WF).
- Eldorado.**—EVAN W. KELLEY, forest supervisor, Placerville (WU-WF) ; George W. Lyons, forest assistant ; J. T. Noddin, forest ranger, reconnaissance.
- Inyo.**—A. H. HOGUE, forest supervisor, Bishop (WU-WF) ; Chas. H. Edwards, forest assistant.
- Kern.**—W. J. RUSHING, forest supervisor, Bakersfield (WU-WF) ; Neal T. Childs, forest assistant.
- Klamath.**—W. B. RIDER, forest supervisor, Yreka (WU-WF) ; J. R. Hall, deputy forest supervisor ; Douglas K. Noyes, forest assistant.
- Lassen.**—L. A. H. KLING, forest supervisor, Red Bluff (P-WF) ; Shirley W. Allen, forest examiner ; R. H. Boerker, forest assistant.
- Modoc.**—C. E. RACHFORD, forest supervisor, Alturas (P-WF) ; Vernon L. Bonner, deputy forest supervisor ; Belknap C. Goldsmith, forest assistant.
- Mono.**—See Nevada.
- Monterey.**—N. H. SLOANE, acting forest supervisor, Arbolado (WU, Monterey-WF, Monterey).
- Plumas.**—D. N. ROGERS, forest supervisor, Quincy (WU, Keddle, Cal.-G) ; W. G. Durbin, deputy forest supervisor ; R. S. Maddox and George R. Orr, forest assistants ; J. C. Elliott and Patrick Kennedy, lumbermen, reconnaissance.
- Santa Barbara.**—W. M. SLOSSON, forest supervisor, Santa Barbara (P-WF) ; H. G. Merrill, deputy forest supervisor ; W. M. Moore, forest assistant.
- Sequoia.**—ALLAN B. PATTERSON, forest supervisor, Hot Springs, Tulare County (WU via Ducor-WF) ; S. W. Wynne, deputy forest supervisor.
- Shasta.**—R. F. HAMMATT, forest supervisor, Sisson (P-WF) ; M. R. Tillotson, deputy forest supervisor ; Stewart B. Shaw and Edward I. Kotok, forest assistants ; Pilgrim Creek Nursery, Fred W. Graham, assistant forest ranger, in charge, McCloud.

Sierra.—P. G. REDINGTON, forest supervisor, Northfork (WU via Friant-WF, Friant); M. A. Benedict, deputy forest supervisor; Ernest G. Dudley and Cary Hill, forest assistants; C. H. Ensign, lumberman, reconnaissance.

Stanislaus.—R. W. AYRES, forest supervisor, Sonora (WU-WF); T. C. West, deputy forest supervisor; J. V. Wulff, forest assistant.

Tahoe.—R. L. P. BIGELOW, forest supervisor, Nevada City (WU-WF); M. B. Pratt, deputy forest supervisor; K. Mills and Reese W. Taylor, forest assistants.

Trinity.—W. A. HUESTIS, forest supervisor, Weaverville (WU-WF); J. D. Coffman, deputy forest supervisor; Ernst V. Jotter and O. M. Evans, forest assistants.

NEVADA.

Eldorado.—See California.

Inyo.—See California.

Mono.—WM. M. MAULE, forest supervisor, Gardnerville (WU-WF); F. A. Wegner, forest assistant.

Tahoe.—See California.

DISTRICT 6.

Washington, Oregon, and Alaska. Office, Beck Building, Portland, Oreg.

GEO. H. CECIL, district forester; W. E. HERRING, district engineer.

LAW.—Office of the solicitor (Forest Service branch). W. F. STALEY, assistant to the solicitor, in charge; EARL C. ARNOLD, assistant to the solicitor.

ACCOUNTS.—A. H. COUSINS, district fiscal agent.

OPERATION.—C. H. FLORY, assistant district forester.

MAINTENANCE.—SHIRLEY BUCK.

SILVICULTURE.—F. E. AMES, assistant district forester; C. S. JUDD, assistant district forester; W. H. GIBBONS, investigation of logging costs; W. T. ANDREWS, lumberman; EDWIN C. ERICKSON and L. A. NELSON, scalers; T. J. STARKER, reconnaissance.

PLANTING.—J. F. KÜMMEL.

SILVICS.—T. T. MUNGER.

Studies, E. J. Hanzlik, R. M. Evans, J. F. Pernot, Portland.

GRAZING.—T. P. MACKENZIE, assistant district forester.

LANDS.—C. J. BUCK, assistant district forester; land classification, J. Roy Harvey, in charge; A. J. Strahorn, soil expert.

PRODUCTS.—J. B. KNAPP, assistant district forester, in charge; H. B. Oakleaf, C. W. Dunning, Portland; O. P. M. Goss, C. W. Zimmerman, H. P. Wyckoff, Cornelius Barry, Seattle, Wash.

FOREST INSECT FIELD STATION.

(Bureau of Entomology, Branch of Forest Insect Investigations.)

Station 6, Ashland, Oreg.—W. D. EDMONSTON, entomological assistant, in charge.

NATIONAL FORESTS.

ALASKA.

Chugach.—W. G. WEIGLE, forest supervisor, Ketchikan (SC, U. S. A., WU-AP, Am); Thos. M. Hunt, deputy forest supervisor; Bruce Hoffman, forest assistant.

Tongass.—W. G. WEIGLE, forest supervisor, Ketchikan (SC, U. S. A., WU-AP, Am).

CALIFORNIA.

Crater.—See Oregon.

Siskiyou.—See Oregon.

OREGON.

Cascade.—C. R. SEITZ, forest supervisor, Eugene (WU, P-WF).

Crater.—M. L. ERICKSON, forest supervisor, Medford (WU, P-WF); H. D. Foster, William E. White, and O. W. Hodgman, forest assistants.

Deschutes.—MELVIN L. MERRITT, forest supervisor, Bend (WU, PT & T-Ad via Opal City, GN via Opal City).

Fremont.—GILBERT D. BROWN, forest supervisor, Lakeview (WU via Reno, Nev.—P, WF); Nelson J. Billings, deputy forest supervisor; Norman G. Jacobson, forest assistant.

Klamath.—See California.

Malheur.—CY. J. BINGHAM, forest supervisor, John Day (WU via Baker City—Am, WF via Baker City); D. B. Reynolds, deputy forest supervisor.

Minam.—H. W. HARRIS, forest supervisor, Wallowa (WU—Am); Ephraim Barnes, deputy forest supervisor.

Ochoco.—HOMER ROSS, forest supervisor, Prineville (WU, PT & T—Am); Allen Hodgson, deputy forest supervisor.

Oregon.—T. H. SHERRARD, forest supervisor, Portland (WU, P—Am, WF, N); Ralph S. Shelley, deputy forest supervisor; W. B. Osborne, forest assistant.

Paulina.—W. W. CRYDER, forest supervisor, Crescent (WU, PT & T—Ad. GN via Opal City).

Santiam.—F. H. BRUNDAGE, forest supervisor, Albany (WU, P—WF).

Siskiyou.—N. F. MACDUFF, forest supervisor, Grants Pass (WU, P—WF); H. Haefner, forest assistant.

Siuslaw.—A. E. COHOON, forest supervisor, Eugene (WU, P-WF); David E. Fittón, deputy forest supervisor; H. M. Johnson, forest assistant.

Umatilla.—HUGH B. RANKIN, forest supervisor, Heppner (WU, P-AM); G. A. Bright, forest assistant.

Umpqua.—S. C. BARTRUM, forest supervisor, Roseburg (WU, P-WF); George Bonebrake, deputy forest supervisor; Arthur Kerr, forest assistant.

Wallowa.—H. W. HARRIS, forest supervisor, Wallowa (WU-Am).

Wenaha.—See Washington.

Whitman.—HENRY IRELAND, forest supervisor, Sumpter (WU via Baker City-Am, WF via Baker City); E. H. McDaniels, deputy forest supervisor; Harold P. Gilkey, B. Frank Heintzleman, Lawrence Pagter, and Hamilton M. Coan, forest assistants.

WASHINGTON.

Chelan.—G. W. MILHAM, forest supervisor, Chelan (PT & T-Am, GN via Wenatchee).

Columbia.—H. O. STABLER, forest supervisor, Portland, Oreg. (WU, P-Am, WF, N); W. W. G. Hastings, deputy forest supervisor; A. R. Wilcox, Lage Wernstedt, and C. P. Willis, forest assistants.

Colville.—C. C. REID, forest supervisor, Republic (WU, P-Am, GN); F. W. Cleator, deputy forest supervisor; Edward W. Headsten, forest assistant.

Okanogan.—H. M. HALE, forest supervisor, Okanogan (PT & T-Am, GN via Wenatchee); V. V. Harpham, deputy forest supervisor.

Olympic.—R. L. FROMME, forest supervisor, Olympia (WU, P-Am, GN, N); A. A. Parker, deputy forest supervisor.

Rainier.—G. F. ALLEN, forest supervisor, Tacoma (WU, P-Am, N); P. T. Harris, deputy forest supervisor.

Snoqualmie.—STANTON G. SMITH, forest supervisor, Seattle (WU, P-N, GN, WF); Lewis A. Treen, jr., deputy forest supervisor; Walter H. Leve and Alexander G. Jackson, forest assistants.

Washington.—C. H. PARK, forest supervisor, Bellingham (WU, P-Am, GN, N).

Wenaha.—J. M. SCHMITZ, forest supervisor, Walla Walla (WU-Am, N).

Wenatchee.—A. H. SYLVESTER, forest supervisor, Leavenworth (WU-Am, GN); E. J. Fenby, forest assistant.

SERVICE CHANGES.

APPOINTED.

FORESTER.—Dendrology: Ray G. Light, assistant in xylogotomy.

PRODUCTS.—Washington office: Stanley L. Wolfe and Harry S. Davis, statisticians in forest products; Eugene L. Horne, collaborator.

ACQUISITION.—Herman L. Tucker, examiner of surveys; Jacob S. Kaplan, forest assistant.

DISTRICT 1.—Operation: Assistant forest rangers—James C. Friend, Absaroka; Alonzo H. Ott, Deerlodge; Charles Larson, Helena; John D. Brooks, Kootenai; Fay G. Clark, forest assistant, St. Joe; Ralph W. Smith, forest clerk, Beaverhead; Ethel A. Higgins, clerk (stenographer and typewriter). District office: Gardner I. Porter, clerk (chief of maintenance); William F. Perrine, topographic draftsman; Helen M. West, clerk (stenographer and typewriter).

DISTRICT 2.—Operation: Assistant forest rangers—Ira L. Hazelton, Felix Newton, Walter Osborn, Black Hills; J. G. Blaine, Harney; Walter F. Baumdicker, Leadville; John W. Evans, Medicine Bow; Fred W. Ryden, Montezuma; Frank J. Cox; clerks (stenographers and typewriters)—B. Richard Ferris, Nebraska; Edward A. Rowell, Routt; Edith L. White, Uncompahgre; A. W. Yaich, Arapaho; Gus B. Modlish, Bighorn; Mabel L. Collins, Gunnison.

DISTRICT 3.—Operation: Hezekiah B. Hammond, clerk, district office; Audrey C. Schach, draftsman (copyist—topographic), district office; Gordon Fincannon, clerk (typewriter), Arkansas; Ophelia M. Celaya, clerk (stenographer and typewriter), Coconino; Alice H. Chapman, clerk (stenographer and typewriter), Gila; Charles W. Craig, clerk (stenographer and typewriter), Sitgreaves; assistant forest rangers—Ernest J. Mead, Arkansas; Albert C. Clancy, Coconino; Jacob C. Nave, Datil; Otis E. Watson, Datil. Lands: Cora P. Cook, clerk (typewriter), district office.

DISTRICT 4.—Operation: James H. Hull, forest assistant, Targhee; assistant forest rangers—Adolph G. Hauge, Uinta; George G. Henderson and Oliver C. Lockhart, jr., Wasatch; Ryle R. Teed, Idaho Land Exchange; Roy J. Williams, forest clerk, Lemhi; Jennie L. Beringer, clerk (stenographer and typewriter), district office.

DISTRICT 5.—Operation: Edward N. Munns, forest assistant, Angeles; Oscar M. Evans, forest assistant, Trinity; Frank A. Wegner, field examiner, Mono; Ralph B. Grabill, clerk, Cleveland; clerks (stenographers and typewriters)—Emma C. Manwaring, Cleveland; Frances B. Frost, Eldorado; William L. Mayhew, Lassen; Clarence E.

Taylor, Plumas; assistant forest rangers—Grover C. Bruce, Raleigh R. Bryan, Milton D. Morris, Eldorado.

DISTRICT 6.—Operation: Claude R. Jones, assistant forest ranger, Cascade; Woodbridge Metcalf, assistant forest ranger, Snoqualmie; Will J. Sproat, field examiner, Whitman.

RESTORED TO THE ROLLS.

DISTRICT 1.—Operation: Frank H. Sayer, assistant forest ranger, Custer; Harold L. Redlingshafer, clerk, Helena; John T. Siders, assistant forest ranger, St. Joe.

DISTRICT 2.—Operation: Joseph B. Hull, assistant forest ranger, Arapaho.

DISTRICT 3.—Silviculture: Arthur B. Recknagel, assistant district forester, district office.

DISTRICT 4.—Property audit: Mary L. Walker, clerk. District office: Dorris Head, clerk (stenographer and typewriter).

DISTRICT 5.—Operation: Thomas T. Dinsmore, assistant forest ranger, Santa Barbara; Claude K. Barker, assistant forest ranger, Sierra.

DISTRICT 6.—Operation: Frank B. Kellogg, forest assistant, Cascade; assistant forest rangers—Joe A. Brinkley, Deschutes; William Sethe, Rainier; Jesse M. Mann, Santiam; Joseph L. MacKechnie, Siuslaw. Lands: Annie L. Stewart, clerk (stenographer and typewriter), district office.

REINSTATED.

DISTRICT 1.—Operation: Frank W. Syler, assistant forest ranger, Flathead.

DISTRICT 2.—Operation: Thomas M. Moorman, clerk (law), district office.

DISTRICT 3.—Operation: Assistant forest rangers—Ben F. Vaughan, Ozark; George K. Pradt, Zuni.

DISTRICT 4.—Operation: Guy C. Hendrickson, forest clerk, Sawtooth.

DISTRICT 5.—Operation: John P. Yost, assistant forest ranger, Eldorado. Silviculture: Louis Margolin, forest examiner, district office.

DISTRICT 6.—Operation: Dee Wright, assistant forest ranger, Oregon.

CHANGE IN DESIGNATION.

FORESTER.—Editor: Herbert A. Smith, from expert and editor to editor.

OPERATION.—Geography: H. S. Meekham, from forest expert to civil engineer; Grant Bruce, from forest agent to statistician.

SILVICULTURE.—Austin Cary, from expert to forest examiner.

PRODUCTS.—Laboratory: M. C. Jensen, from forest agent to laboratory assistant.

ACQUISITION.—C. D. Cushman, from expert to lumberman.

DISTRICT 1.—Operation: Ulysses S. Swartz, agent to timber cruiser.

DISTRICT 2.—Operation: Earl S. Peirce, forest assistant to deputy forest supervisor, district office.

DISTRICT 5.—Operation: William C. Hodge, jr., from expert to forest examiner, district office; Henry W. Muzzall, deputy forest ranger to assistant forest ranger, Santa Barbara.

DISTRICT 6.—Silviculture: Frank B. Kellogg, forest assistant to collaborator, district office.

TRANSFERRED.

SILVICULTURE.—Silvics: G. B. MacDonald, forest assistant, from District 4.

GRAZING.—Edward L. Greene, consulting botanist, from Bureau of Plant Industry.

PRODUCTS.—Laboratory: Harry M. Mason, jr., engineer in wood preservation, from District 2; Norman de W. Betts, engineer in forest products, from District 2. Washington office: Jesse C. Nellis to Bureau of Plant Industry.

ACQUISITION.—H. L. Johnson, forest assistant, from District 3.

DISTRICT 1.—Operation: Forest assistants—Donald Bruce, from Coeur d'Alene to district office; H. J. A. Grossman, from Priest River Experiment Station to Jefferson; John E. Keach, from Helena to St. Joe; Fay G. Clark, from St. Joe to Missoula; Gardner I. Porter, forest ranger, from Nezperce to clerk, district office; Harry Holverson, assistant forest ranger, from Sioux to Nezperce.

DISTRICT 2.—Operation: Roy Smith, forest examiner, Harney to district office; Percy T. Smith, forest assistant, Black Hills to Harney; Michael J. Sweeney, forest assistant, Medicine Bow to Harney to Rio Grande; Ira T. Starbuck, forest ranger, district office to Holy Cross; William M. Darley, forest ranger, Routt to Rio Grande; James C. Jensen, forest ranger, Hayden to Black Hills; assistant forest rangers—James P. Reddick, Medicine Bow to Harney; Kenson J. Helmick, Holy Cross to Pike; Henry C. Langston, Battlement to White River; clerks (stenographers and typewriters)—Margaret N. Hendricks, White River to Routt; Jennie R. Edwards, Sopris to district office; Ralph B. Grabill, Routt to District 5; Margaret Cash, district office to Sopris; forest clerks—Bernard M. Shoemaker, Leadville to Holy Cross; Clarence D. Moir, District 4 to Medicine Bow; Harry H. Power, Medicine Bow to District 4. Products: Norman de Witt Betts, engineer in forest products, Boulder to Madison, Wis.; Harry M. Mason, jr., engineer in wood preservation, Boulder to Madison, Wis.

DISTRICT 3.—Operation: Frank C. Douglas, Arkansas to Office of Solicitor; Ralph C. Huey, deputy forest supervisor, Ozark to Arkansas; Elliott S. Barker, forest ranger, Pecos to Carson; Edward A. Pfefferle, forest clerk, Gila to Carson; Herbert B. Fay, forest ranger, Gila to

Coconino; Claude E. Malbone, assistant forest ranger, Jemez to Coconino; J. Wilbur O'Byrne, forest assistant, Coconino to Zuni; William F. Hill, deputy forest supervisor, Florida to Ozark; Ira T. Yarnall, forest assistant, Carson to Pecos; Richard H. Kennerdell, assistant forest ranger, Tusayan to Prescott; Stanton G. Smith, forest supervisor, to District 6; Robert R. Moak, assistant forest ranger, Arkansas to Zuni. Silviculture: Quincy Randles, forest assistant, Coconino to district office.

DISTRICT 4.—Operation: Forest assistants—Asa L. Brower, Uinta to Silviculture, district office; Charles F. Evans, Boise to Palisade; Edwin C. Shepard, Payette to Cache; James H. Hull, Targhee to Caribou; Earl C. Sanford, Payette to Lemhi; Forman T. McLean, Manti to Utah Experiment Station; Frederick S. Baker, Manti to Uinta; Samuel E. Bower, Manti to Wasatch; William Benjamin Rice, Payette to Nevada; Raymond D. Garver, Payette to Toiabe; Thomas F. Heineman, Payette to Sawtooth; forest rangers—Julius G. Maelzer, Idaho Land Exchange to Lemhi; John D. Alsop, Teton to Dixie; assistant forest rangers—John A. Wood, Idaho Land Exchange to Challis; Archer Huff, Ashley to Kaibab; Milton S. Rogerson, Wasatch to Kaibab; Thomas J. Haycock, Uinta to Kaibab; Clayton F. Brower, Sawtooth to Lemhi; George G. Henderson, Wasatch to Pocatello; forest clerks—James E. Scott, Ashley to Boise; Sidney C. Scribner, Idaho to district office; Clarence D. Moir, Salmon to District 2 (Medicine Bow); Harry H. Power, District 2 (Medicine Bow) to Salmon; David A. West, district office to Wasatch. Lands: Mary M. Childs, land law clerk, District 4 to District 7.

DISTRICT 5.—Operation: Lewis W. Hess, clerk, from Klamath to district office.

DISTRICT 6.—Operation: Frederick H. Brundage, forest supervisor, Washington to Santiam; Stanton G. Smith, forest supervisor, District 3 to District 6 (Snoqualmie); Lorence A. Nelson, scaler, Snoqualmie to district office; Florence A. Johnson, clerk (stenographer and typewriter), Snoqualmie to district office; assistant forest rangers—Mortimer J. Brown, Rainier to Columbia; H. Erbine Newman, Santiam to Columbia; William J. Nichols, Paulina to Columbia; Harold E. Smith, Deschutes to Columbia; Ernest Jameson, district office to Okanogan. Silviculture: Frank B. Kellogg, collaborator, Cascade to district office; forest assistants—John F. Pernot, Products to district office; Samuel E. Robison, Whitman to district office; Thurman J. Starker, Whitman to district office. Lands: Kirk P. Cecil, assistant forest ranger, Paulina to district office. Products: Cornelius Barry, laboratory assistant, District 2 to District 6.

PROMOTED IN RANK.

DISTRICT 1.—Operation: James W. Girard, forest ranger to scaler, Kaniksu. District office: Gardner I. Porter, forest ranger, to chief of maintenance.

DISTRICT 2.—Operation: Roy Smith, forest ranger to forest examiner, district office; Nelse E. Peterson, assistant forest ranger to forest ranger, Black Hills; Neil Campbell, forest guard to assistant forest ranger, Durango; Harry E. Miller, assistant forest ranger to forest ranger, Shoshone.

DISTRICT 3.—Operation: Raymond E. Marsh, forest assistant to deputy forest supervisor, Carson.

DISTRICT 5.—Operation: Assistant forest rangers to forest rangers—George M. Hayes, Plumas; Chester E. Jordan, Sierra; Henry Everest, Trinity; Benjamin H. Mace, forest ranger to deputy forest supervisor, California.

DISTRICT 6.—Operation: Joe A. Graham, assistant forest ranger to forest ranger, Oregon.

LEAVE WITHOUT PAY.

ACQUISITION.—R. C. Staebner, forest assistant; J. L. Pritchard, forest examiner.

DISTRICT 1.—Operation: Assistant forest rangers—Henry R. Snider, Clearwater; George W. Burke, Coeur d'Alene; Frank H. Sayer, Custer; James G. Danilson, Kaniksu; Malcolm K. Kedzie, Kootenai; Price Townsend, Lewis and Clark; Louis H. Foote, Lolo; Howard R. Flint, Minnesota; Eugene Langdon, Nezperce; John L. Cobbs, forest assistant, Flathead; Oral J. Berry, forest ranger, Missoula; Stella G. Baird, clerk (stenographer and typewriter), Kaniksu. District office: Clerks (stenographers and typewriters)—Mayme E. Butler and Hilda O. Hedsted.

DISTRICT 3.—Accounts: Wm. Rose, clerk, district office. Operation: Drue Underwood, assistant forest ranger, Apache; Lillian M. Sutherland, clerk (forest), Carson; Clarence F. Korstian, forest assistant, Coconino; James J. Woolsey, assistant forest ranger, Crook; Lafayette A. Phillips, assistant forest ranger, Tusayan.

DISTRICT 4.—Operation: James D. McCall, forest ranger, Idaho; William M. Mace, assistant forest ranger, Targhee.

DISTRICT 5.—Operation: Arthur Bartlett, deputy forest supervisor, California; assistant forest rangers—William R. Darling and Matthew J. Keegan, Cleveland; Grover C. Bruce, Edward William Fessel, Milton D. Morris, and John P. Yost, Eldorado; Marion J. Brown, Inyo; Paul J. Robinson, Sequoia; John W. Wear, Stanislaus.

DISTRICT 6.—Operation: Stanley A. Anderson, clerk, Malheur; John C. Kuhns, jr., assistant forest ranger, Umpqua; Edward H. Lough, assistant forest ranger, Umpqua. Products: Halsey P. Wyckoff, assistant engineer in forest products, district office (Seattle laboratory).

FURLOUGHED.

DISTRICT 1.—Operation: Assistant forest rangers—George Grigg and Henry Lampe, Absaroka; William H. Morse, Beartooth; Frederick W.

Schumacher, Beaverhead; George A. Bignell, Clyde C. Carpenter, Marion E. Heikes, and Charles A. Strodtbeck, Blackfeet; James L. Adams, Cabinet; Harvey Fearn, Coeur d'Alene; Ralph T. Abbott, Custer; Joe D. Morgan and Will M. Pratt, Gallatin; David C. Huson, Kootenai; Sidney C. Armitage, Lolo; Harry A. Goodale, Michigan; Milo M. Hoyt, Missoula; James Campbell, Mark F. Kelley, W. Carl Loughborough, Fritzhof; J. Lundstrom, Claude C. Parker, and Harvey W. Phillips, Pend Oreille; Elmer A. O'Callaghan, St. Joe. District office: John C. Beebe, junior engineer.

DISTRICT 2.—Operation: Assistant forest rangers—Albert L. Fairhurst, Colorado; Joseph B. Hull, Sopris; Thomas O. Patterson, Battlement; Stephen E. Doering, Cochetopa; Neil Campbell, Durango; Jacob J. Ellenberger, Hayden; Maitland E. Bradley, Sopris.

DISTRICT 4.—Operation: Assistant forest rangers—Marion T. Johnson, Dan Nielson, and Alfred Toland, Caribou; John J. Boyle and Lee Roy Tracht, Challis; William Scott Barton, Fillmore; Charles M. De Witt and Jesse W. Kimball, Idaho; Thomas N. Hein, Lemhi; Matthew Bowers, Claude Kelsen, and Joseph L. Thorpe, Manti; Clarence E. Favre and John W. Davis, Payette; Hewitt B. Emigh and Marion E. Mahoney, Salmon; Forest Turner and Guy S. Heath, Sawtooth; J. Robert Logan and John F. Woodman, Targhee; Fred H. Betts, Samuel A. Buchanan, Clinton M. Mangun, and Louis R. Hillmon, Weiser.

DISTRICT 5.—Operation: Assistant forest rangers—Raleigh R. Bryan, Eldorado; William J. Haskins, Inyo; Andrew A. Allen and Anthony E. O'Donnell, Kern; Thomas A. Lane, Leroy A. LaPaint, William B. Salstrom, Klamath; Howard Hufford, Albert W. Bramhall, Edmund M. Hufford, and William J. Spalding, Lassen; John A. Kresge, Charles O. Leonard, and William J. Lunsford, Modoc; Eugene E. Clark, William B. Duncan, William Hayes, Paul C. Thayer, John S. Thomas, Leonard P. Wygle, and Harry S. Yates, Plumas; Frank L. St. Clair, Sequoia; Bernard L. Girard, Ross A. McCloud, and John Allan Reid, Shasta; Claude K. Barker, Hugh R. Downey, Ninion E. Duncan, Robert C. McKenzie, William H. Parkinson, and Earl R. Stevenson, Sierra; John N. Lindsey and Henry J. Zimmerman, Stanislaus; Charles W. Bonta, George W. Campbell, William D. Campbell, Walter H. Coupe, Fred J. Dooley, Martin F. Hussye, Charles W. King, George M. Noyes, Lawrence E. Overmyer, George E. Poore, and Charles W. Sutcliffe, Tahoe; William X. Garrett, Francis D. Bucklew, Ivan A. Cuff, David W. Haas, Oscar O. Hays, John A. Molin, William A. Thomsen, Alva Tracy, Bruce A. Viles, and William H. Woodhams, jr., Trinity.

DISTRICT 6.—Operation: Assistant forest rangers—James H. Bolen, Chelan; Raymond H. Thompson, Colville; Horace G. Whitney and Frank L. Carlson, Crater; Willard W. Lawton and Burton Oney, Deschutes; Clinton W. Combs and Gaines H. Looney, Fremont; Robert Bennett, John H. Blinn, Frederick V. Bradford, Malheur; Orville M. Gillenwater, Walter T. Morris, James W. White, Ochoco; Howard J.

Eberly and William C. Sweat, Okanogan; George W. Hutton, Olympic; Horace Berry, George R. Ledford, and Hiram R. Wilcox, Oregon; Hubert E. Derrick, Edward H. Mahn, and Luman C. Rich, Paulina; Oliver C. Klingensmith, Ed. Tittle, and Abner T. Wright, Rainier; Jesse M. Mann and Harold S. Newlins, Santian; Claude E. Greider, Joseph G. G. Morgan, and Wendell R. Whitney, Snoqualmie; Lovell E. Tipton, Umatilla; Edward E. Harpham and Otto Weaver, Umpqua; Oscar Pratt, Wallowa; James Lowden and Joseph Ridley, Washington; Reinhold A. Bottcher and George E. Stevenson, Wenaha; John S. Brender, Wenatchee; Charles F. Groom, Thomas H. Parker, and William F. Rankin, Whitman.

RESIGNED.

FORESTER.—Editor: Edwin R. Jackson, expert.

PRODUCTS.—Laboratory: McGarvey Cline, director.

ACQUISITION.—Samuel D. Sarason, examiner of surveys; Lincoln Crowell, forest assistant.

DISTRICT 1.—Operation: Assistant forest rangers—Dell Harrison, Absaroka; William F. Perrine and Thomas P. De Lano, Cabinet; James S. Garrions and Frank Tompkins, Clearwater; Wayne F. Alexander, Claud O. Houghton, Russell V. Tanner, Robert L. Hess, Kootenai; Harley M. Massie, Lewis and Clark; William V. Manring, Nezperce; William C. Bessey and William H. Rock, St. Joe; Alice Warren, forest clerk, Beaverhead; Esther Phillips, clerk (typewriter), Coeur d'Alene; Clarence L. George, forest ranger, Gallatin; Dana W. Maryott, forest ranger, Helena; Robert C. St. Clair, forest assistant, Kootenai; Le Roy R. Bock, forest clerk, Kootenai; Reuben P. Prichard, forest assistant, Lolo; John Earle Barton, forest supervisor, Pend Oreille.

DISTRICT 2.—Operation: Deputy forest supervisors—Albert H. Miller, Holy Cross; John Bentley, jr., White River; Lehigh J. Young, forest assistant, Medicine Bow; David G. Belt and Roscoe D. Wyatt, clerks, district office; clerks (stenographers and typewriters)—Anna C. Klett and Rinda J. Hardenbrook, district office; Gustave H. Gleitsmann, Bonneville; Maude F. French, Holy Cross; forest clerks—Nellie E. Dillon, district office; Everett E. Hildebrand, Harney; forest rangers—Charles C. White, Arapaho; Arthur Snyder, Bighorn; Thomas Acord, Colorado; Charles A. Sommers, Routt; assistant forest rangers—Albert L. Fairhurst, Colorado; Norman B. Price, San Juan; Philip S. Barker, Leigh W. McGrew, and Walter M. Thomas, Arapaho; Clayton Winterstein, Battlement; Alison L. Kroeger, Durango; Ford J. De Haven, Leadville; Marvin H. Sartor, Fred J. Dingler, Willsey Du Bois, Medicine Bow; George D. Criley, Rio Grande; Edward A. Parks, Routt; Edward N. Brown, Sopris; Walter T. Schmehl, Washakie.

DISTRICT 3.—Operation: Forest clerks—Lois Anderson and Earl G. Fogelgren, Coconino; Theresa G. Houghton, clerk, Coronado; Bradley M. Thomas, deputy forest supervisor, Jemez; assistant forest rangers—

William E. Carter and Edward W. Face, Gila; George S. Purteymun, Prescott. Silviculture: Ruby M. Peel, clerk (typewriter); forest assistants—George C. Morbeck and Ernest C. Pegg, Jemez; Albert E. Moss, Pecos; John S. Boyce, Coconino Experiment Station.

DISTRICT 4.—Operation: Royal F. Mathias, forest supervisor, Salmon; Irwin W. Cook, forest assistant, Targhee; forest rangers—Ulrich C. Pogge, Idaho Land Exchange; Alvin W. Garrison, Humboldt; assistant forest rangers—Edward Brown, Toiyabe; Arthur Huff, Dixie; Albert G. Richards, Lemhi; William C. Shepard, Palisade; Robert W. Strong, La Sal; Edith H. Mangun, clerk, Boise; Gretchen A. Roler, clerk (typewriter), district office; forest clerks—Walter F. Ballantyne, Nevada; Effie Jensen, Pocatello; Edgar B. King, Lemhi. Silviculture: Karl B. Friedland, clerk (stenographer and typewriter), district office.

DISTRICT 5.—Operation: Jesse Hough, forest assistant, Angeles; Howard de Forest, forest assistant, Trinity; Ruth Sisson, clerk (stenographer and typewriter), district office; Minnie B. Lamson, clerk, Cleveland; Ralph H. Browning, forest clerk, Cleveland; Francis P. Porcher, deputy forest supervisor, Lassen; James W. Patton, forest ranger, Trinity; assistant forest rangers—James G. Stanchfield, Angeles; Edmund D. Cimpher and Clarence L. Russell, California; Edward Bish and Homer O. Eaton, Cleveland; William V. Bayley and Robert E. Clark, Santa Barbara; Parker Talbot, Sequoia; William H. Love, Sierra. Silviculture: Serope Y. Parnay, forest planting assistant, Angeles.

DISTRICT 6.—Operation: Max Rothkugel, forest assistant, Oregon; Edward B. Starr, forest assistant, Santiam; William C. Neff, forest ranger, Crater; assistant forest rangers—James L. Furnish, Cascade; Erasmus E. Robertson, Columbia; John J. McClain, Minam; Aquilla E. Clark, Santiam; Thomas F. Lathrop, Wallowa; John L. Jones, Washington. Silviculture: Frank G. Miller, forest assistant, district office.

APPOINTMENT TERMINATED.

DISTRICT 1.—Operation: Whiting Alden, forest assistant, Cabinet; Frank Campbell, assistant forest ranger, Marquette; Henry F. Kottkey, assistant forest ranger, St. Joe.

DISTRICT 2.—Operation: Richard P. Hilleary, surveyor, Arapaho; Sidney H. Axmear, forest clerk, Bonneville; assistant forest rangers—Otis D. Henton, Bonneville; James A. Blatherwick, Durango; Harold S. Priestley, Montezuma.

DISTRICT 3.—Operation: Hezekiah B. Hammond, forest ranger, district office; Thomas Verner, assistant forest ranger, Jemez.

DISTRICT 5.—Operation: Forest assistants—Edward J. Yeomans, Mono; Frank A. Wegner, Clifford M. Cole, Clarence E. Taylor, Plumas; Edward H. Coulson, Tahoe; assistant forest rangers—Elmer H. McClure and Clarence A. Morris, California; Irvan M. Fulkerth, Eldorado.

DISTRICT 6.—Operation: Frederick Hanson, forest ranger, Olympic; assistant forest rangers—Benjamin S. Patton, Oregon; Clarence J. Ingram, Umpqua; William H. Thompson, Whitman. Silviculture: H. P. Henry, lumberman, district office.

DISMISSED.

DISTRICT 1.—Operation: Assistant forest rangers—Grover A. Allen and Samuel F. Millsap, Coeur d'Alene; Charles S. Dennis, Kootenai.

DISTRICT 2.—Operation: Albert Hill, assistant forest ranger, Bridger.

SERVICE NOTES FOR JANUARY.

These notes contain instructions and necessary information to forest officers, and will therefore be carefully read and kept on file for reference.

LAW.

OFFICE OF THE SOLICITOR.

Law Cases in District 2—

In the case of *United States v. Matt Watt*, the defendant pleaded guilty to a grazing trespass on the Medicine Bow National Forest, and was fined in the United States District Court at Cheyenne, Wyo., \$100 and costs, in all \$140.14.

The case of *United States v. O. D. Espinoza*, involving a grazing trespass on the Rio Grande National Forest, was settled by the trespasser paying \$48.05 actual damages, \$50 punitive damages, and costs amounting to \$53.95, a total of \$152.

The case of *United States v. William Greenough*, involving a grazing trespass on the Shoshone National Forest, was settled by the payment of \$9 actual damages, payment being made by the administrator of the defendant's estate.

The case of the *United States v. G. M. Ohler*, involving a timber trespass on the Pike National Forest, was settled by the payment by defendant of \$105.82.

The case of *United States v. W. L. Fosdick*, involving a timber trespass on the San Isabel National Forest, was settled by the payment by defendant of \$7.15.

S. K. Loy, indicted for leaving a fire unattended on the Medicine Bow National Forest, was sentenced by the United States District Court at Cheyenne, Wyo., to pay a fine of \$5, and costs amounting to \$25.54, a total of \$30.54.

The case of *United States v. Lanphere-Hinrichs*, involving a timber trespass on the Black Hills National Forest, was settled by the payment by defendant of \$624.14.

In the case of *United States v. Warshauer-McClure Sheep Co., Antonio Salazar, Carlota v. de Archuleta et al.*, involving grazing trespasses on the San Juan and Rio Grande National Forests, defendants tendered \$391.25 in settlement, and recommendation was made to the United States attorney that this sum be accepted in full settlement.

George W. Pierce executed a relinquishment to reservoir rights of way on the Rio Grande National Forest after the case had been referred to the Department of Justice for enforcement of forfeiture for failure to construct within five years.

Law Cases in District 3—

United States *v.* Alamogordo Lumber Co., timber trespass (civil), Alamo National Forest. Case settled on compromise for \$4,000.

Juan Espinoza, grazing trespass (criminal), Crook National Forest. Criminal proceedings dropped by Attorney General with approval of Secretary of Agriculture upon payment of damages in civil case.

Esteban Flores, timber trespass (criminal), Datil National Forest. Criminal proceedings dropped upon settlement by trespasser for the value (\$19.25) of the wood sold by him.

D. W. Van Zandt, fire trespass (civil), Ozark National Forest. Judgment was rendered in this case on November 27 at Little Rock, Ark., for \$72.57 actual damages, and \$35.45 costs.

J. W. Van Winkle, grazing trespass (civil), Alamo National Forest. Judgment was taken in this case at Santa Fe, N. Mex., on December 14 for \$29.80 and the costs.

T. J. Parkinson, grazing trespass (civil), Alamo National Forest. Judgment was taken in this case at Santa Fe, N. Mex., on December 14 for \$9 and costs.

McArthur Milling Co., timber trespass (civil), Ozark National Forest. Judgment was rendered in this case on December 11 at Batesville, Ark., by consent of the parties, for \$90 and costs.

Law Cases in District 4—

United States *v.* John Black, jr., grazing trespass upon Powell National Forest. Defendant settled by payment of \$29.72 actual damages, \$25 punitive damages, and \$57.80 costs; total, \$112.52.

United States *v.* David Daniels, grazing trespass upon Pocatello National Forest. Defendant settled by payment of \$20 actual damages, \$25 punitive damages, and \$31.15 costs; total, \$76.15.

United States *v.* L. L. Evans, grazing trespass upon Pocatello National Forest. Defendant settled by payment of \$15 actual damages, \$25 punitive damages, and \$22.85 costs; total, \$62.85.

United States *v.* W. C. Preston, grazing trespass upon the Wasatch National Forest. This case involved the right of permittees to graze under their permit a band of sheep belonging to the defendant, not a permittee. The defendant claimed to have made a bona fide sale of the sheep to the permittees, but suit was brought against the defendant on the theory that such sale was merely a subterfuge. The jury returned a verdict in favor of the Government in the sum of \$234.15 actual damages, and \$180.85 costs. The permit issued the other parties

for 1,563 head of sheep, such permit being valued by them at \$1.50 per head, will be canceled.

United States *v.* Beaver River Power Co., occupancy trespass upon the Fillmore National Forest. A bill was filed in the United States District Court for Utah, praying an injunction to restrain the Beaver River Power Co. from further occupancy of a portion of the Fillmore Forest without permit.

Law Case in District 5—

Cazajous and Inda pleaded guilty to the old indictment for grazing trespass on the Sierra National Forest and were fined by the court. The case against Grimaud was continued, since he was in France and could not plead in person.

Law Cases in District 6—

In the case of F. Herkenrath et al., in which the defendants left unattended a fire on the Olympic National Forest on July 16, 1912, the trespassers plead guilty on August 29, 1912, in the United States District Court for the Western District of Washington and were fined \$10 each and costs, which amounted to \$30.65.

W. I. Downard and Roy Schaeffer, partners. paid \$72.98 on November 19, 1912, in settlement of their grazing trespass on the Wallowa National Forest. Complaint had been filed by the United States district attorney for the district of Oregon for \$21.78 compensatory and \$50 punitive damages.

On December 30, 1912, payment was received from the Dixie Meadows Mining Co. for \$799.08, balance in full on their account for timber trespass on the Whitman National Forest. This company had previously paid \$440.65. This case was referred to the Department of Justice on July 2, 1912.

OPERATION.

Reimbursement for Expenses—Letter of Authorization Amended.

The Acting Secretary has amended the letter of authorization to the Forester and the district foresters so that when it seems advisable the Forester and the district foresters can authorize reimbursement for actual expenses for the time spent by traveling forest officers while on the Forest or in camp, or a separate per diem, lower than that established for the time which is spent in travel on trains and in towns and cities, can be fixed for the time spent on the Forest or in camp.

This amendment was made effective beginning October 15, 1912.

Forest Service Standard Chain Tape—

Additional standard chain tapes have been adopted for the use of the Forest Service as follows:

A 66-foot tape, $\frac{1}{4}$ -inch wide; divided into 100 links; the end links divided into tenths; with an extra foot before the zero mark; furnished with a hardwood reel; with large metal folding handle; with two large detachable rings, similar to that made by the Lufkin Rule Co. and described in their Catalogue No. 8 as No. 5066.

A 132-foot tape, $\frac{1}{4}$ -inch wide; divided into 200 links; the end links divided into tenths; with an extra foot before the zero mark; furnished with a hardwood reel; with large metal folding handle; with two large detachable rings; similar to that made by the Lufkin Rule Co. and described in their Catalogue No. 8 as No. 5132.

Restoration of Lost or Obliterated Land Office Corners—

There is still a belief that forest officers are not permitted to reset or restore land-office corners which for any reason have been lost or obliterated, and that this can be done only by a United States deputy surveyor. This is not correct. Although forest officers are not specifically authorized nor requested by the General Land Office to restore corners, yet they should not hesitate to do so.

A corner which is lost or obliterated *may be restored by any person*, providing he follows the instructions issued by the General Land Office for "The restoration of lost and obliterated corners." These instructions were furnished to all supervisors and district foresters, together with the Manual of Surveying Instructions, to which they refer. A United States deputy surveyor has no greater authority to restore a corner than any other person.

Lookout Station Telescopes—

Two high-grade telescopes, of 4-inch aperture, have been installed at lookout stations on the Cleveland National Forest in California and on the Coronado National Forest in Arizona. Tests are being made this winter to determine if the use of such telescopes will add to the efficiency of the Forest Service in discovering fires, and possibly in determining their origin. It is expected that the tests will be completed at such an early date that if the reports are favorable a number of similar instruments can be provided for use at important lookout stations during the fire season of 1913.

Transfer of Minnesota and Michigan Forests—

Effective February 1, the Minnesota, Superior, Michigan, and Marquette Forests will be transferred from District 1 to District 2.

SILVICULTURE.

Insect Infestations—

Forest Insect Field Stations of the Bureau of Entomology have been established in Districts 1, 5, and 6.

The second paragraph on page 30 of the Forest Plans Section of the Manual provides that "If there is a field agent of the Bureau of

Entomology in the district, the matter will be taken up with him through the proper channels." It has been agreed by the Forest Service and the Bureau of Entomology that this should be interpreted as follows:

Any matters relating to administration or policy or to new control projects will first be taken up by the district forester with the Bureau of Entomology through the Forester. After the general policy and plan of procedure for the project have been agreed upon, correspondence in conducting it will be directly between the district forester and the field agent of the Bureau of Entomology.

Requests from private owners for advice or assistance in the control of insect attacks will be referred to the Bureau of Entomology. If cooperation between the private owner and the Forest Service is desirable, the Bureau of Entomology, after its investigation of the matter, will advise the private owner to take it up direct with the district forester concerned, who will make the necessary arrangement for cooperation.

LANDS.

Settlement—Information in Listing Letters Concerning Power Possibilities, etc.

[Circular letters of Nov. 1, Nov. 26, and Dec. 11, 1912.]

At the request of the Interior Department, instructions were issued to District Foresters, by the letters above indicated, to state in listing letters that "no power possibilities exist" on the area in question where the facts justify such a statement. Where an unqualified statement can not be made a duplicate copy on report 107 should be transmitted with the listing letter to the Interior Department. Where the land proposed to be listed is unsurveyed and described by metes and bounds, it should be stated in the listing letter whether any other tracts in the vicinity of or adjoining the one described have been listed under the act of June 11, 1906, or whether applications therefor have been made and are pending; also whether there are any mining claims adjoining or in the neighborhood of the tract listed. These instructions were not intended to be retroactive so far as to require a reexamination in the field of lands which had already been reported upon and recommended for listing; but as to such lands, if the District Forester has at hand in the records and files of his office the information requested, it should be embodied in the listing letter.

Claims—Amount of Cultivation Required of Squatters.

In reply to an inquiry from the district forester at Portland, Oreg., regarding the procedure to be followed in squatter claims cases where entry has been made since June 6, 1912, and a sufficient area has not

been cultivated to comply with provisions of the three-year homestead law, the following letter was written by the Associate Forester, and all district foresters should be guided thereby :

I am informally advised that the General Land Office has held in a number cases that the provisions of the act of June 6, 1912, with reference to cultivation, must be complied with where homestead *entry* is made subsequent to the date of the passage of the act. It has also been learned informally that all requests for reduction of area required to be under cultivation, in case of entries under the act of June 6, 1912, are, for the present, being transmitted to the Field Service of the General Land Office for investigation and report before action is taken thereon by the Secretary of the Interior. While the Forest Service does not desire to invite criticism unnecessarily, it is, nevertheless, its duty to report the facts in reference to such claims. In the letter of transmittal to the chief of Field Division, a statement should be included to the effect that the protest is made only because of the provisions of the act of June 6, 1912, with regard to cultivation, by all claimants who have made entry subsequent to that date, and that if later the proper authorities should decide that such compliance is not necessary in the case of squatters who were precluded from making entry prior to that date solely because of the unsurveyed status of the lands, no objection to the patenting of the claim would be offered by the Forest Service.

Settlement—Indians in National Forests Entitled to Allotments.

Pursuant to a letter dated December 4, 1912, from the First Assistant Secretary of the Interior (Land Allotments, 113664-12 W.A.M.), the following circular letter was addressed to District Foresters under date of December 7, 1912 :

I will be very glad if you will instruct the supervisors of the National Forests in your district, and they, in turn, their rangers and other field officers, that whenever they have knowledge of a tract of agricultural land within the Forest that is occupied by an Indian, or upon which an Indian has made improvements, they make report thereof to you. Such report should contain the name of the Indian, if it is known, the nature of the occupancy, and the character, extent, and value of the improvements, so far as the same can be given, in a general way without a detailed examination being made. Such report should then be transmitted by you to the Commissioner of Indian Affairs, reference being made in the letter of transmittal to the First Assistant Secretary's letter of December 4, 1912, and to these instructions. A copy of these instructions has been forwarded to the Secretary of the Interior for his information.

Settlement—Construction Act of August 10, 1912.

The Solicitor has agreed that the provision of the Agricultural appropriation act that no lands listed under the act of June 11, 1906, shall pass from the Forest until patent issues may be considered as retroactive. The suspension of Manual Amendment No. 136 is therefore withdrawn and that amendment is now in full force and effect.

An amendment to the Manual (No. 153) has been prepared and is now in the hands of the printer, which modifies amendment No. 140 by striking out the last sentence of the latter, which reads as follows:

They shall not apply, however, to any lands listed prior to August 10, 1912.

Settlement—Form 110.

An error occurs in the last sentence of the last paragraph of Form 110, which has just been reprinted. The word "way" should be substituted for the word "any," so as to make it read "In the case of right of *way* reservations," etc. Forest officers are advised of the error in this manner, since it is impracticable to have the correction made on the form.

Land Classification Amendment to Agricultural Appropriation Bill.

The amendment to the Agricultural appropriation bill, act of August 10, 1912 (Public, 261), for classifying agricultural lands, is printed below in response to numerous requests made for copies of it:

That the Secretary of Agriculture is hereby directed and required to select, classify, and segregate, as soon as practicable, all lands within the boundaries of National Forests that may be opened to settlement and entry under the homestead laws applicable to the National Forests, and the sum of twenty-five thousand dollars is hereby appropriated for the purposes aforesaid.

SERVICE PUBLICATIONS ISSUED.

- Bulletin 104. Principles of Drying Lumber at Atmospheric Pressure and Humidity Diagram.
- Bulletin 105. Wood Turpentine: Their Analysis, Refining, and Composition, Based Upon Experiments at the Forest Products Laboratory at Madison, Wis.
- Bulletin 113. Methods and Apparatus for the Prevention and Control of Forest Fires: As Exemplified on the Arkansas National Forest.
- Bulletin 114. Forest Conditions in Louisiana.
- Bulletin 116. Possibilities of Western Pines as a Source of Naval Stores.
- Bulletin 117. Forest Fires: Their Causes, Extent, and Effects, with a Summary of Recorded Destruction and Loss.
- Bulletin 118. Prolonging the Life of Cross-Ties.
- Bulletin 119. An Examination of the Oleoresins of some Western Pines.
- Circular 193. Mechanical Properties of Redwood.
- Circular 205 (First revision). Forest Fire Protection under the Weeks Law in Cooperation with States.
- Circular 208. Extracting and Cleaning Forest Tree Seed.
- Circular 209. Service Tests of Ties—Progress Report.
- Circular 210. Yield and Returns of Blue Gum (*Eucalyptus*) in California.
- Report of the Forester, 1912.

CUMULATIVE INDEX TO SERVICE NOTES AND ORDERS.

(JULY, 1912—JANUARY, 1913.)

[Numbers in parentheses after the month indicate page.]

- Amendment to agricultural appropriation bill, land classification; January (96).
- Amendment to letter of authorization—reimbursement for expenses; January (92).
- Amendments to Manual. (*See* Manual, amendments to.)
- Attendance at meetings or conventions; July (24).
- Authorization, amendment of letter of; January (92).
- Claims; October (58-60); January (94).
- Construction act of August 10, 1912; January (95).
- Delayed publications; July (24).
- Fire cooperation by postal employees; July (26).
- trespass. (*See* Trespass, fire.)
- Form 331 revised; July (28).
- 110, error in; January (96).
- General order 155; July (24).
- Grazing trespass. (*See* Trespass, grazing.)
- Indian allotments; January (95).
- Insect infestations; January (93).
- Land classification, amendment to agricultural appropriation bill; January (96).
- Land Office corners, restoration of lost or obliterated; January (93).
- Lands, claims; October (58-60); January (94).
- settlement; October (58-60); January (94-96).
- Law cases in district 1: July (25); October (56).
- 2: July (25); January (90).
- 3: July (25); October (56-57); January (91).
- 4: July (26); October (57); January (91).
- 5: July (26); October (57); January (92).
- 6: July (26); October (57); January (92).
- Manual, amendments to; July (28); October (59-60).
- National Forests, transfer of Minnesota and Michigan; January (93).
- Photo-prints album; October (57).
- Power possibilities, information in listing letters concerning; January (94).
- Protractor, lookout station; July (28).
- Reimbursement for expenses—letter of authorization amended; January (92).
- Settlement; October (58-60); January (94-96).
- Signs, symbols, and colors; July (27).

Squatters' claims, amount of cultivation required ; January (94).

Standard chain tapes ; January (92).

Subsistence for one day after arrival ; July (26).

Telescope, lookout station ; January (93).

Timber trespass. (*See* Trespass, timber.)

Transfer of Minnesota and Michigan Forests ; January (93).

Trespass cases, fire, district 2 ; July (25) ; January (90).

district 3 ; January (91).

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grazing, district 2 ; July (25) ; January (90).

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timber, district 1 ; July (25).

district 2 ; July (25) ; January (90).

district 3 ; July (25) ; October (56) ; January (91).

district 4 ; July (26).

district 5 ; October (57).

district 6 ; January (92).

